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International Symposium on Liquid Metal Processing & Casting 2015 (LMPC2015)

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Preface: International Symposium on Liquid Metal Processing and casting (LMPC 2015), 20-24 September 2015, Leoben, Austria

We are delighted to come up with thirty eight (38) contributed research papers selected from the proceedings, as an output of the international Symposium on **Liquid Metal processing and casting** held in Leoben, Austria, from September 20-24, 2015. This event marks the eleventh such event in a highly successful series of symposia devoted to this important technical field. This symposium gathers industrial and scientific communities in the field of melting, refining and casting of special metals and alloys. Contributions cover a wide range of topics including vacuum arc and electro slag remelting, process modeling, innovative casting techniques, segregation, and liquid metal treatment and refining.

Papers from both the presentation and poster sessions are included in this symposium volume. It is divided into the following six topic areas: Electro slag Remelting, Vacuum remelting, Magneto-hydrodynamic applications in metallurgy, ingot casting, continuous casting, and special metallurgy.

More than half of the papers are directly concerned with mathematical modelling and numerical simulation, although experimental and industrial full-scale processing are also included. Steel, superalloys and titanium are the major materials investigated, while the processing of aluminium, silicon, copper and reactive metals are also addressed.

The conference co-chairmen are grateful to the scientific committee and all the reviewers of the papers for their efficient work done in a very short period of time. These proceedings would not have been possible without the tremendous help of Andreas Ludwig from the Montanuniversität Leoben. Thanks to TMS for promoting the conference to their members around the world. Finally, we would like to thank ASMET (*The Austrian Society for Metallurgy and Materials*) for helping with registration and local organization in particular Bruno Hribernik, Melanie Baumgartner and Yvonne Dworak.

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LMPC 2015

The organisers wish to express their gratitude to the following companies:

